FIG. 1

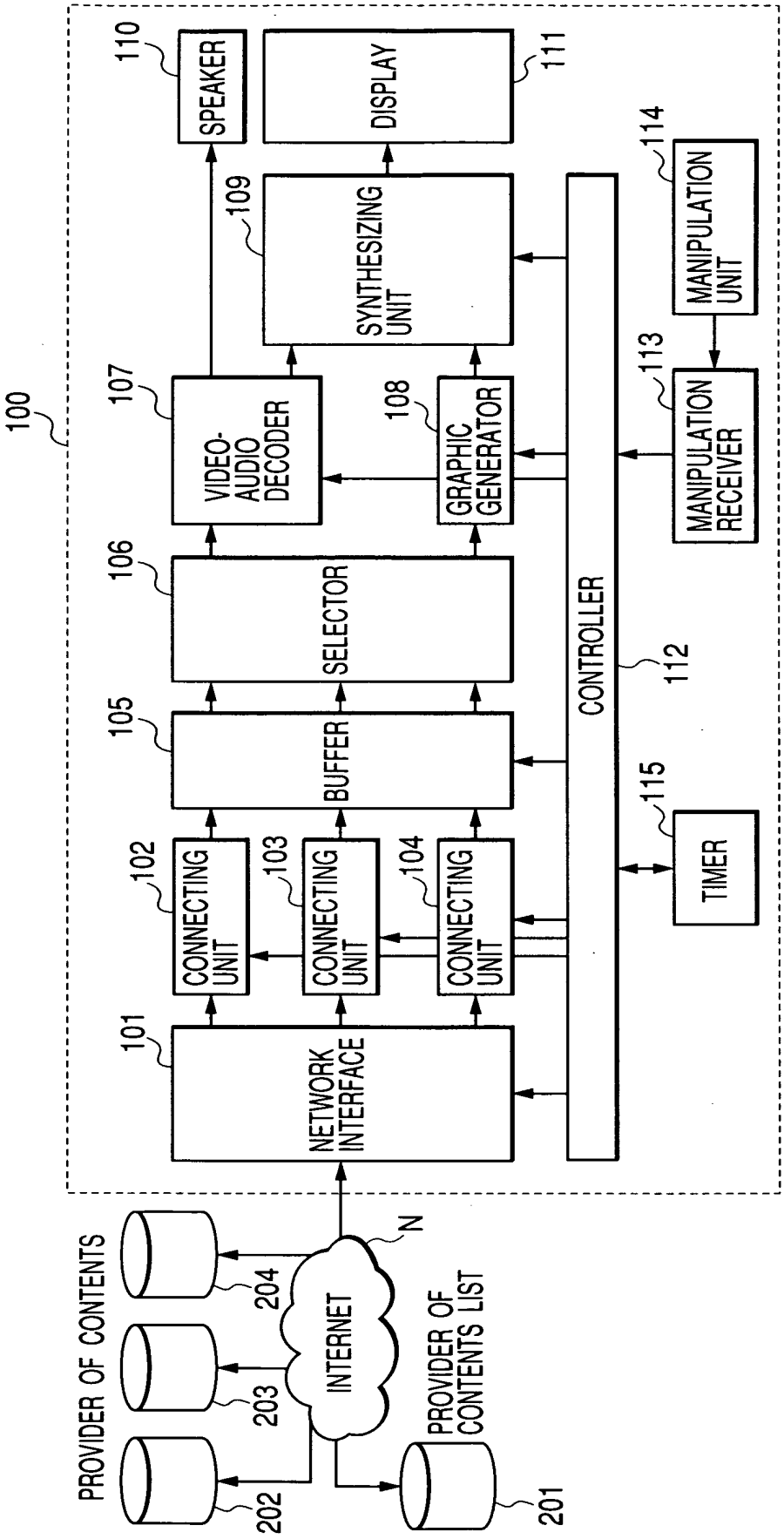

100
NETWORK INTERFACE
101
CONNECTING UNIT
102
CONNECTING UNIT
103
CONNECTING UNIT
104
BUFFER
105
SELECTOR
106
VIDEO-AUDIO DECODER
107
GRAPHIC GENERATOR
108
SYNTHESIZING UNIT
109
SPEAKER
110
DISPLAY
111
CONTROLLER
112
MANIPULATION RECEIVER
113
MANIPULATION UNIT
114
TIMER
115
INTERNET
N
PROVIDER OF CONTENTS LIST
201
PROVIDER OF CONTENTS
202
203
204

FIG. 2

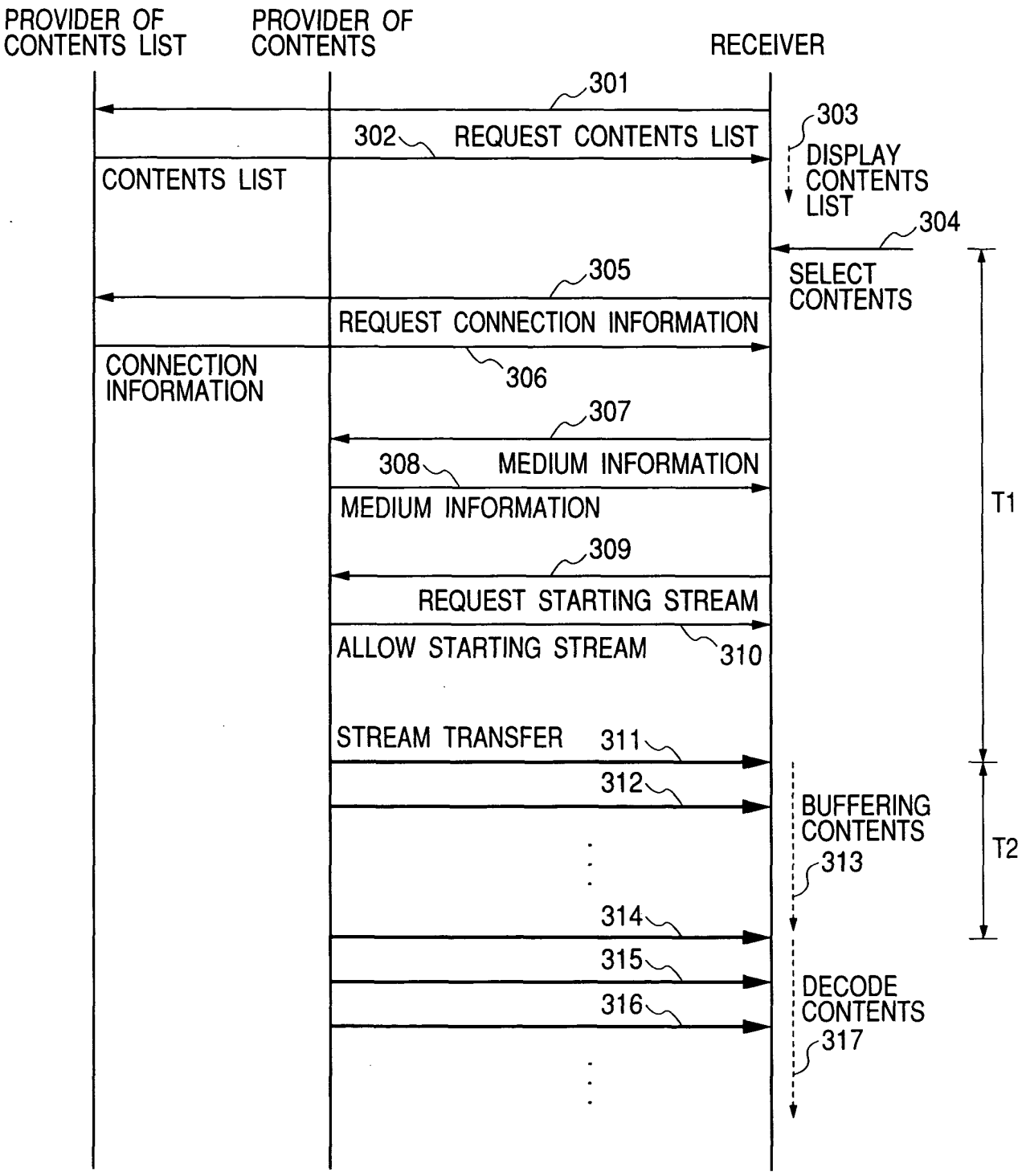

PROVIDER OF CONTENTS LIST
PROVIDER OF CONTENTS
RECEIVER
301
302
REQUEST CONTENTS LIST
303
DISPLAY CONTENTS LIST
CONTENTS LIST
304
SELECT CONTENTS
305
REQUEST CONNECTION INFORMATION
CONNECTION INFORMATION
306
307
308
MEDIUM INFORMATION
MEDIUM INFORMATION
309
REQUEST STARTING STREAM
ALLOW STARTING STREAM
310
STREAM TRANSFER
311
312
BUFFERING CONTENTS
313
314
315
DECODE CONTENTS
316
317
T1
T2

FIG. 3

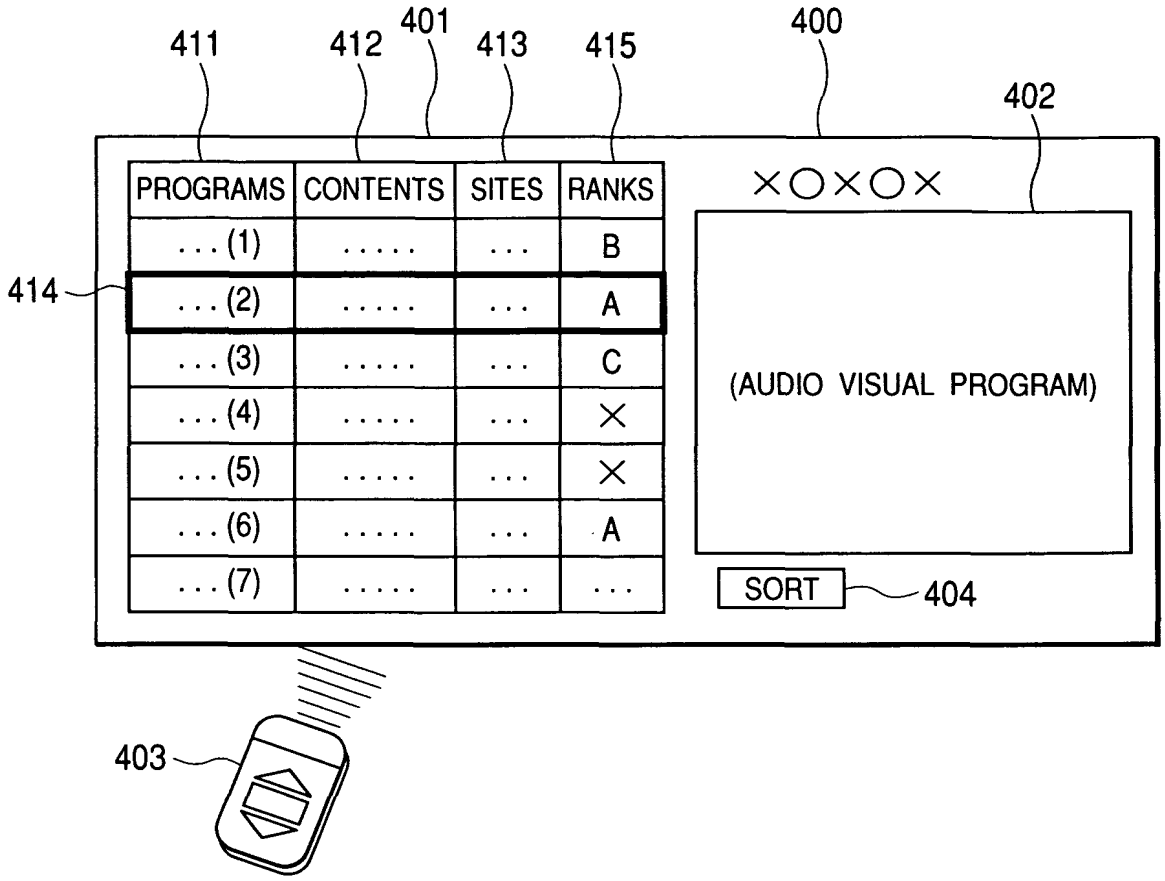

411
412
401
413
415
400
402
PROGRAMS
CONTENTS
SITES
RANKS
. . . (1)
. . . (2)
. . . (3)
. . . (4)
. . . (5)
. . . (6)
. . . (7)
414
×○×○×
(AUDIO VISUAL PROGRAM)
SORT
404
403

FIG. 4

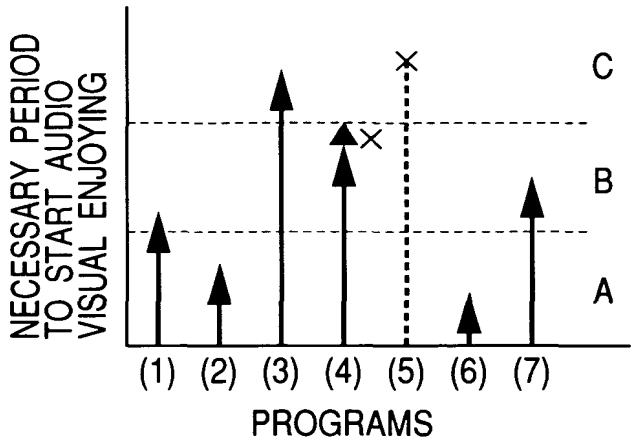

NECESSARY PERIOD TO START AUDIO VISUAL ENJOYING
C
B
A
(1) (2) (3) (4) (5) (6) (7)
PROGRAMS

FIG. 5

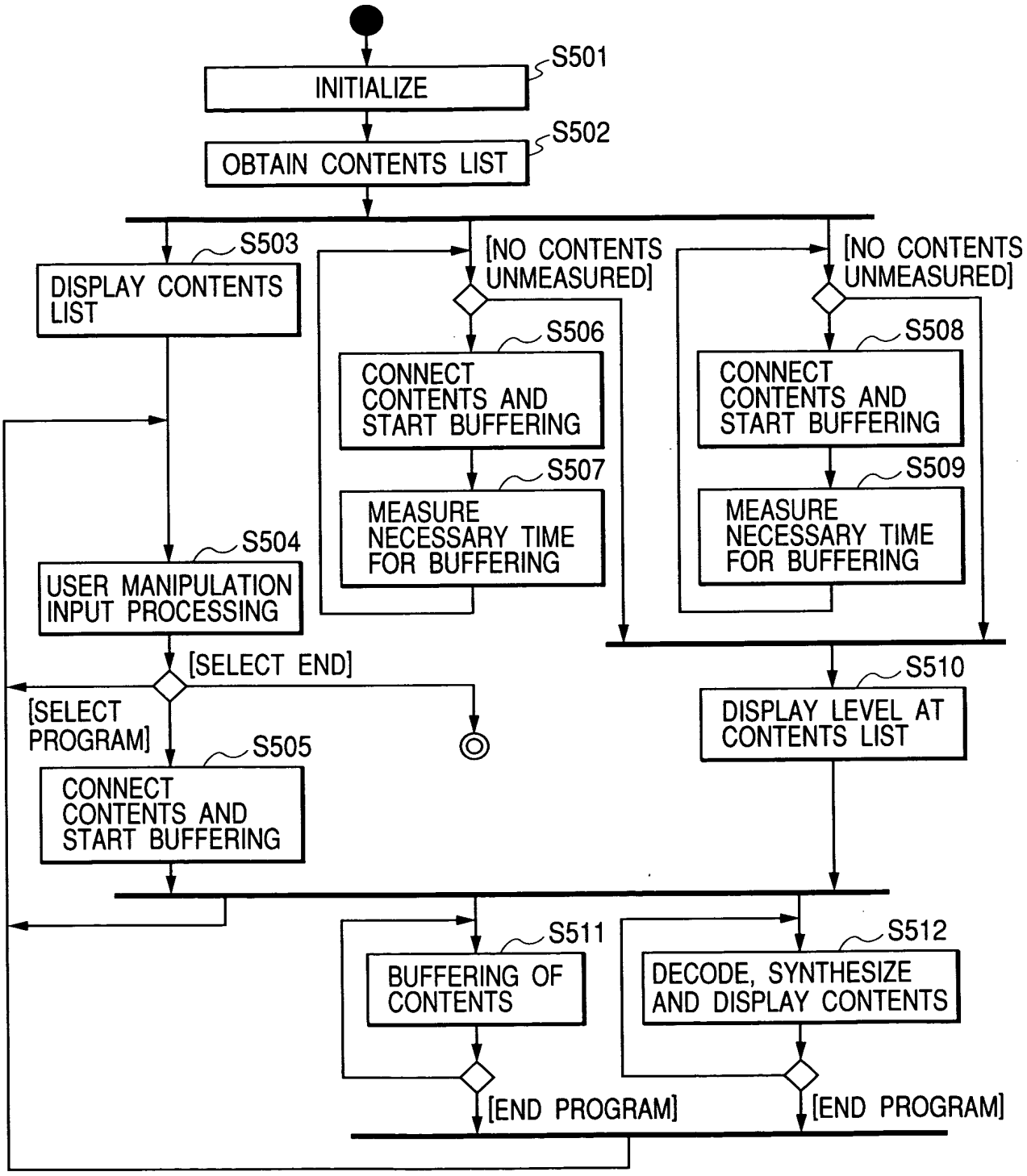

INITIALIZE
S501
OBTAIN CONTENTS LIST
S502
S503
DISPLAY CONTENTS LIST
[NO CONTENTS UNMEASURED]
S506
CONNECT CONTENTS AND START BUFFERING
S507
MEASURE NECESSARY TIME FOR BUFFERING
[NO CONTENTS UNMEASURED]
S508
CONNECT CONTENTS AND START BUFFERING
S509
MEASURE NECESSARY TIME FOR BUFFERING
S504
USER MANIPULATION INPUT PROCESSING
[SELECT END]
[SELECT PROGRAM]
S505
CONNECT CONTENTS AND START BUFFERING
S510
DISPLAY LEVEL AT CONTENTS LIST
S511
BUFFERING OF CONTENTS
S512
DECODE, SYNTHESIZE AND DISPLAY CONTENTS
[END PROGRAM]
[END PROGRAM]

FIG. 6

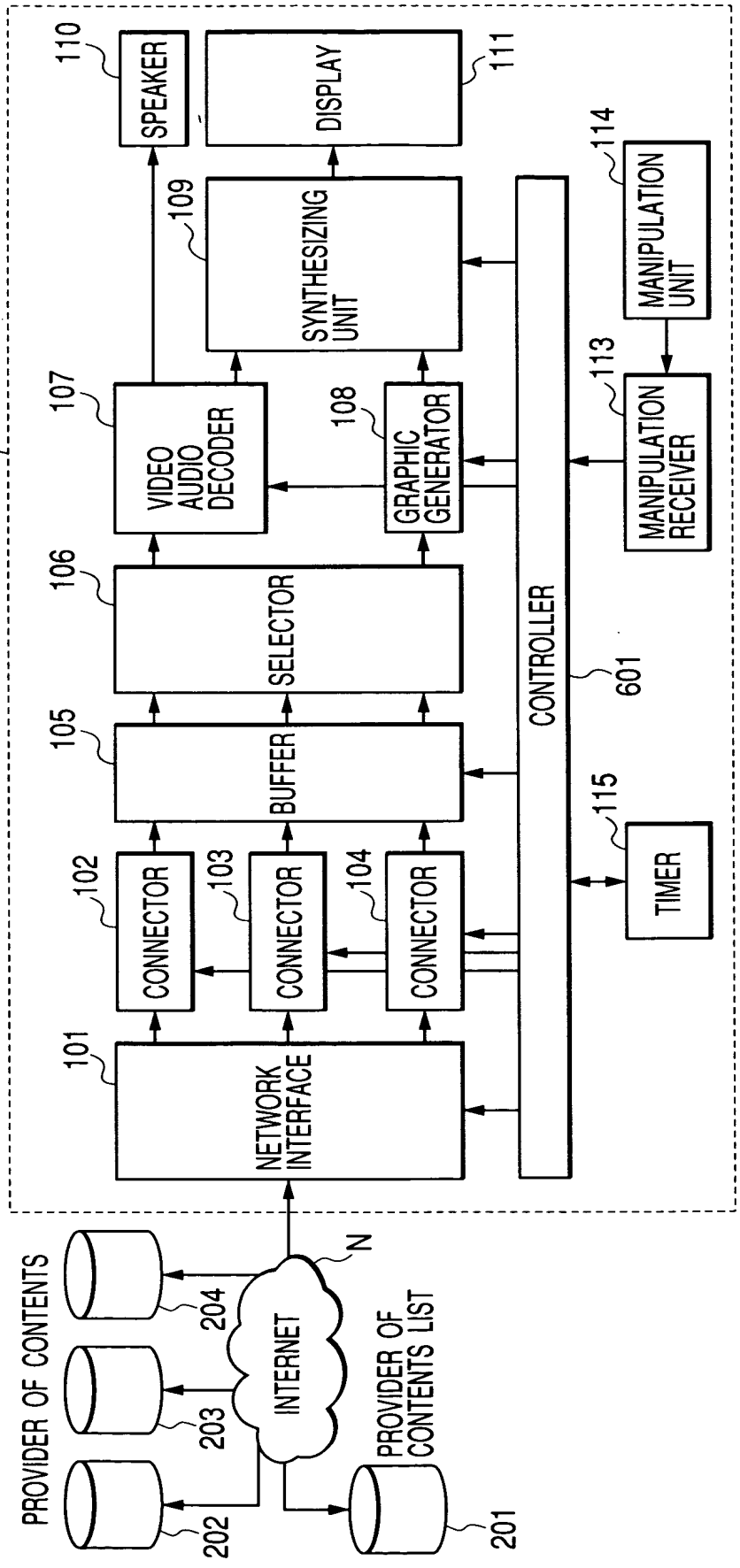

600
110
SPEAKER
111
DISPLAY
109
SYNTHESIZING UNIT
114
MANIPULATION UNIT
107
VIDEO AUDIO DECODER
108
GRAPHIC GENERATOR
113
MANIPULATION RECEIVER
106
SELECTOR
105
BUFFER
CONTROLLER
601
102
CONNECTOR
103
CONNECTOR
104
CONNECTOR
115
TIMER
101
NETWORK INTERFACE
N
INTERNET
PROVIDER OF CONTENTS
204
203
202
PROVIDER OF CONTENTS LIST
201

FIG. 7

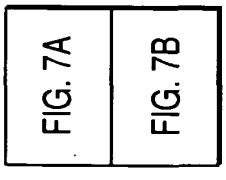


FIG. 7A
FIG. 7B

FIG. 7A

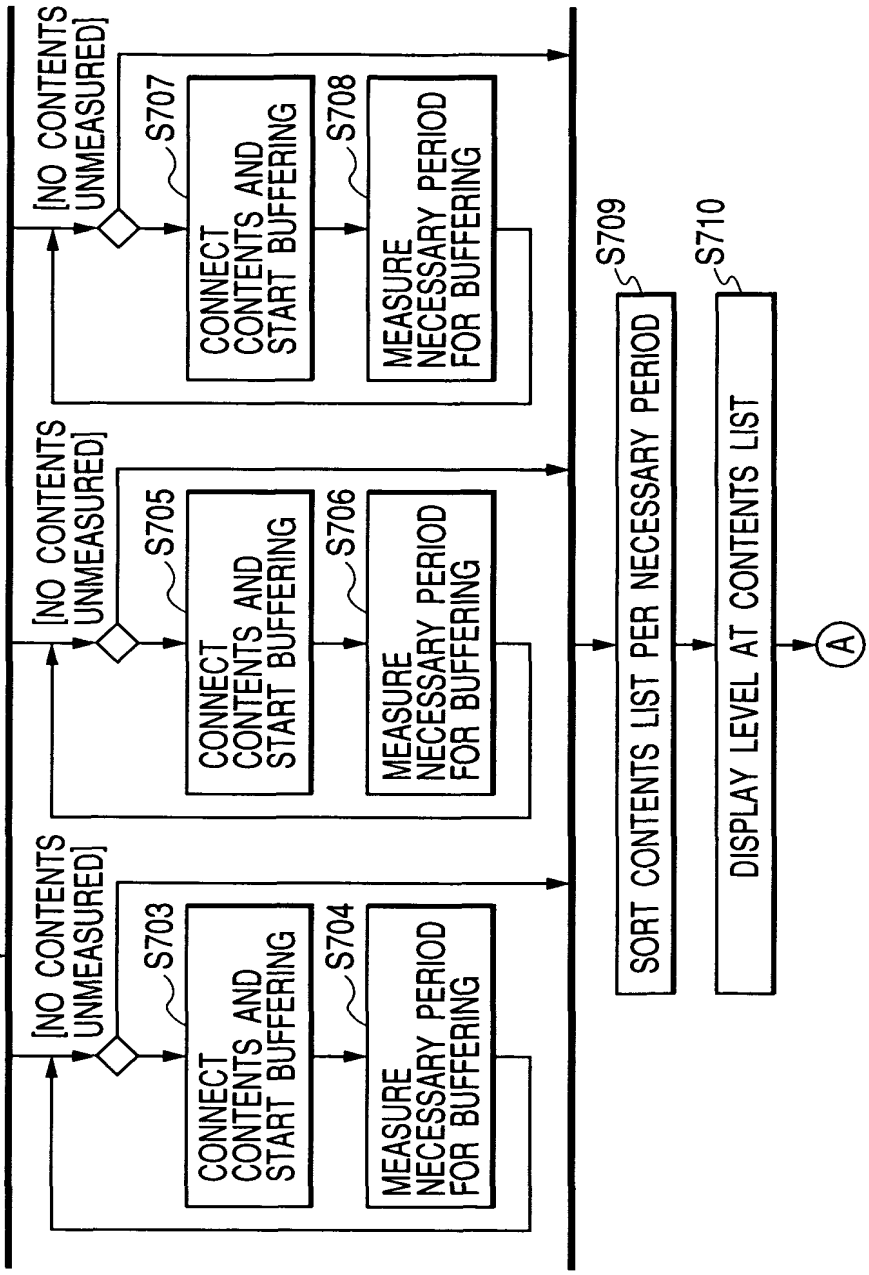

INITIALIZE
S701
OBTAIN CONTENTS LIST
S702
[NO CONTENTS UNMEASURED]
S703
CONNECT CONTENTS AND START BUFFERING
S704
MEASURE NECESSARY PERIOD FOR BUFFERING
[NO CONTENTS UNMEASURED]
S705
CONNECT CONTENTS AND START BUFFERING
S706
MEASURE NECESSARY PERIOD FOR BUFFERING
[NO CONTENTS UNMEASURED]
S707
CONNECT CONTENTS AND START BUFFERING
S708
MEASURE NECESSARY PERIOD FOR BUFFERING
SORT CONTENTS LIST PER NECESSARY PERIOD
S709
DISPLAY LEVEL AT CONTENTS LIST
S710
A

FIG. 7B

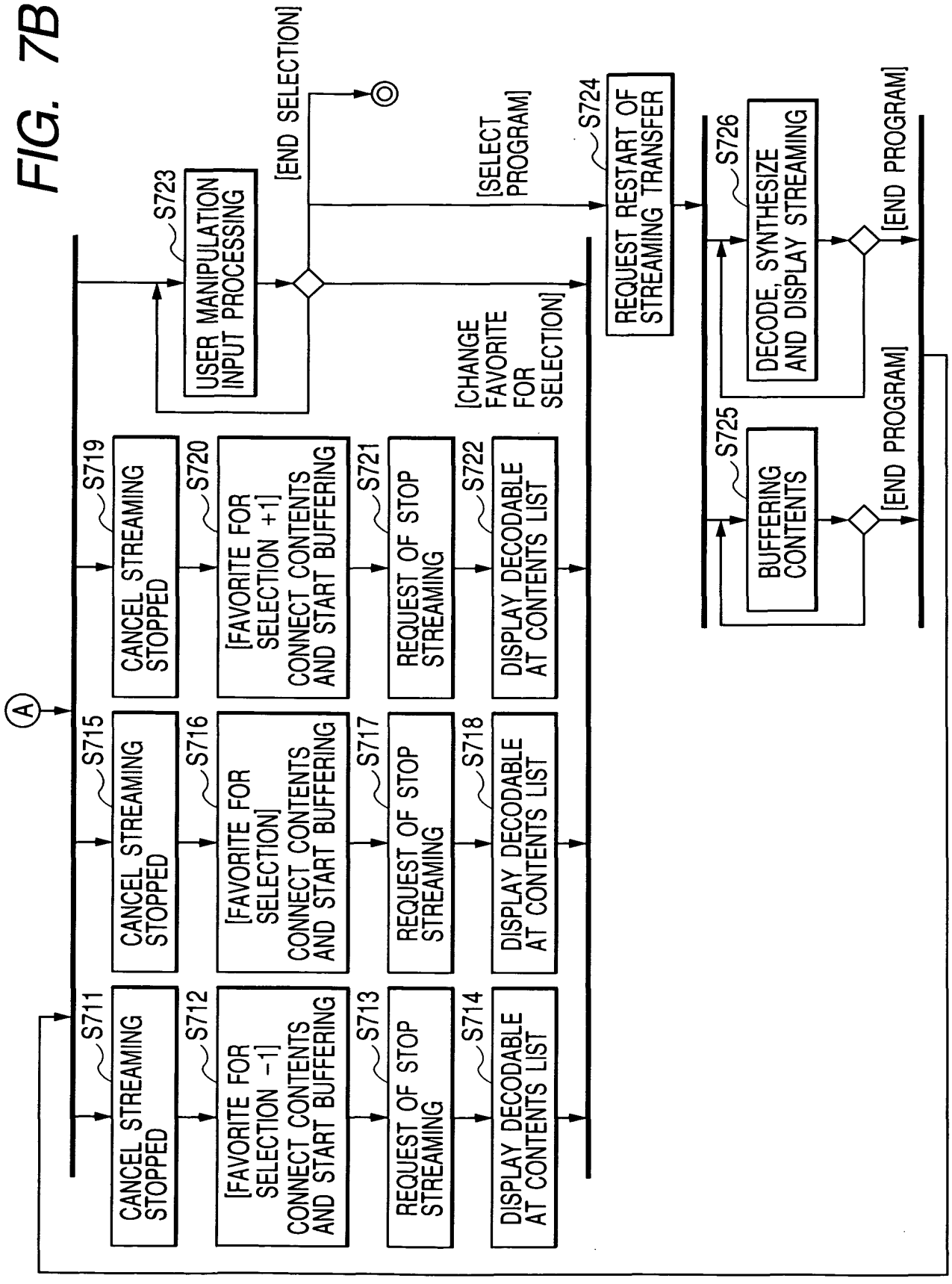

A
S711
CANCEL STREAMING STOPPED
S712
[FAVORITE FOR SELECTION −1] CONNECT CONTENTS AND START BUFFERING
S713
REQUEST OF STOP STREAMING
S714
DISPLAY DECODABLE AT CONTENTS LIST
S715
CANCEL STREAMING STOPPED
S716
[FAVORITE FOR SELECTION] CONNECT CONTENTS AND START BUFFERING
S717
REQUEST OF STOP STREAMING
S718
DISPLAY DECODABLE AT CONTENTS LIST
S719
CANCEL STREAMING STOPPED
S720
[FAVORITE FOR SELECTION +1] CONNECT CONTENTS AND START BUFFERING
S721
REQUEST OF STOP STREAMING
S722
DISPLAY DECODABLE AT CONTENTS LIST
S723
USER MANIPULATION INPUT PROCESSING
[END SELECTION]
[SELECT PROGRAM]
[CHANGE FAVORITE FOR SELECTION]
S724
REQUEST RESTART OF STREAMING TRANSFER
S725
BUFFERING CONTENTS
S726
DECODE, SYNTHESIZE AND DISPLAY STREAMING
[END PROGRAM]
[END PROGRAM]

FIG. 8

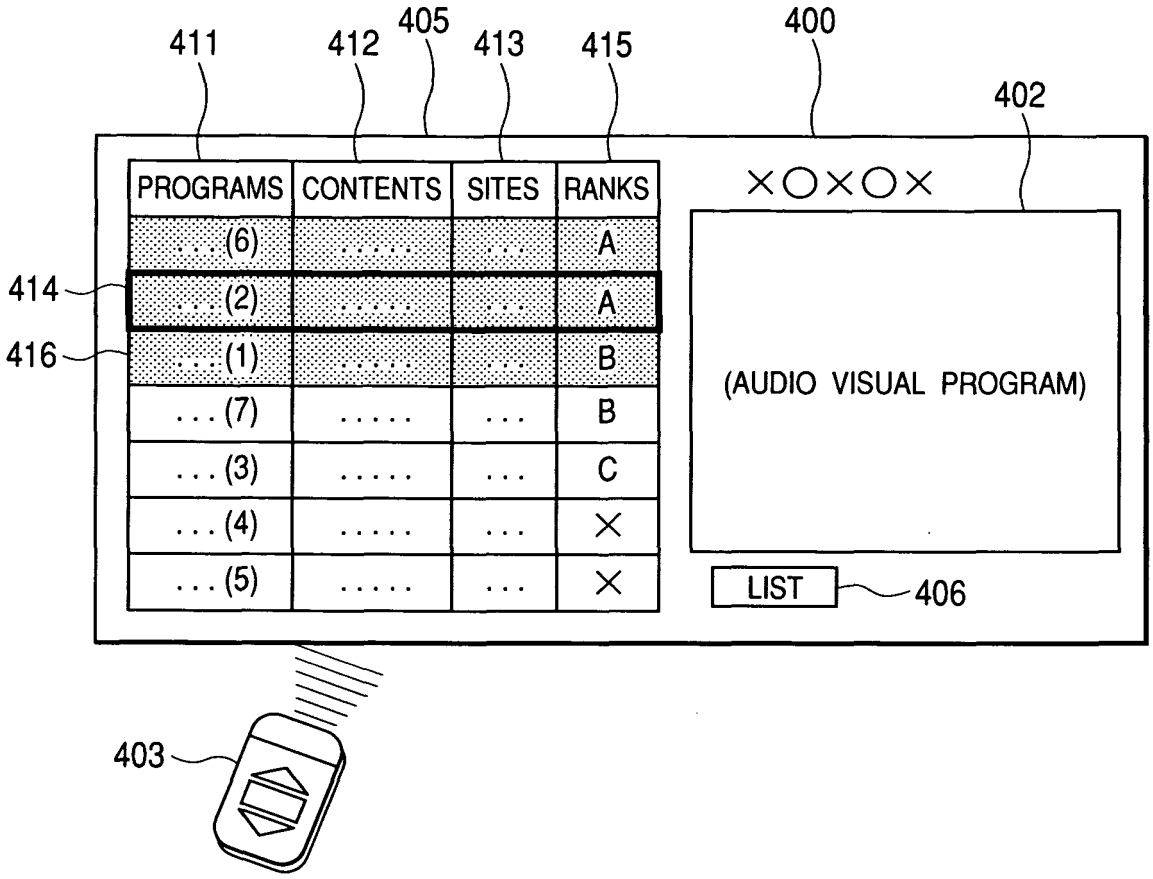

411
412
405
413
415
400
402
PROGRAMS
CONTENTS
SITES
RANKS
. . . (6)
. . . (2)
. . . (1)
. . . (7)
. . . (3)
. . . (4)
. . . (5)
A
A
B
B
C
×
×
414
416
×○×○×
(AUDIO VISUAL PROGRAM)
LIST
406
403

FIG. 9

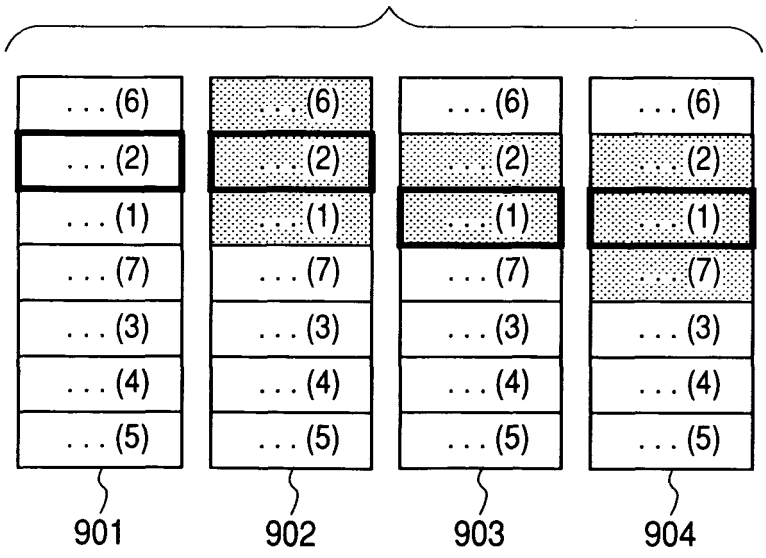

. . . (6)
. . . (2)
. . . (1)
. . . (7)
. . . (3)
. . . (4)
. . . (5)
901
902
903
904

FIG. 10

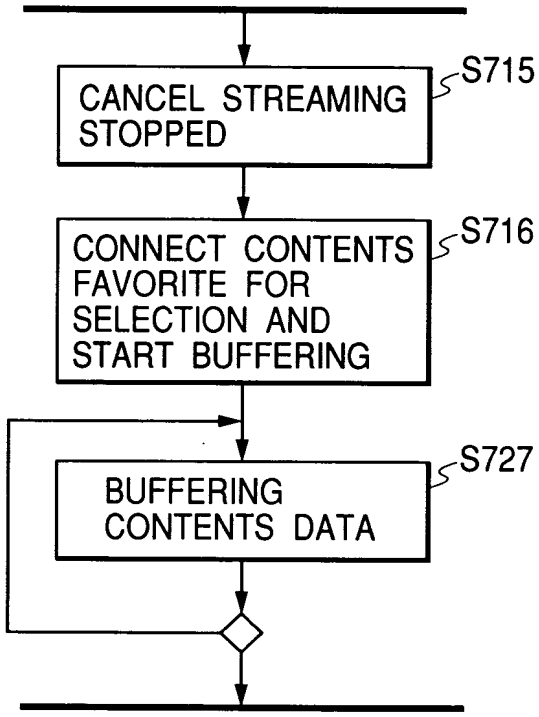
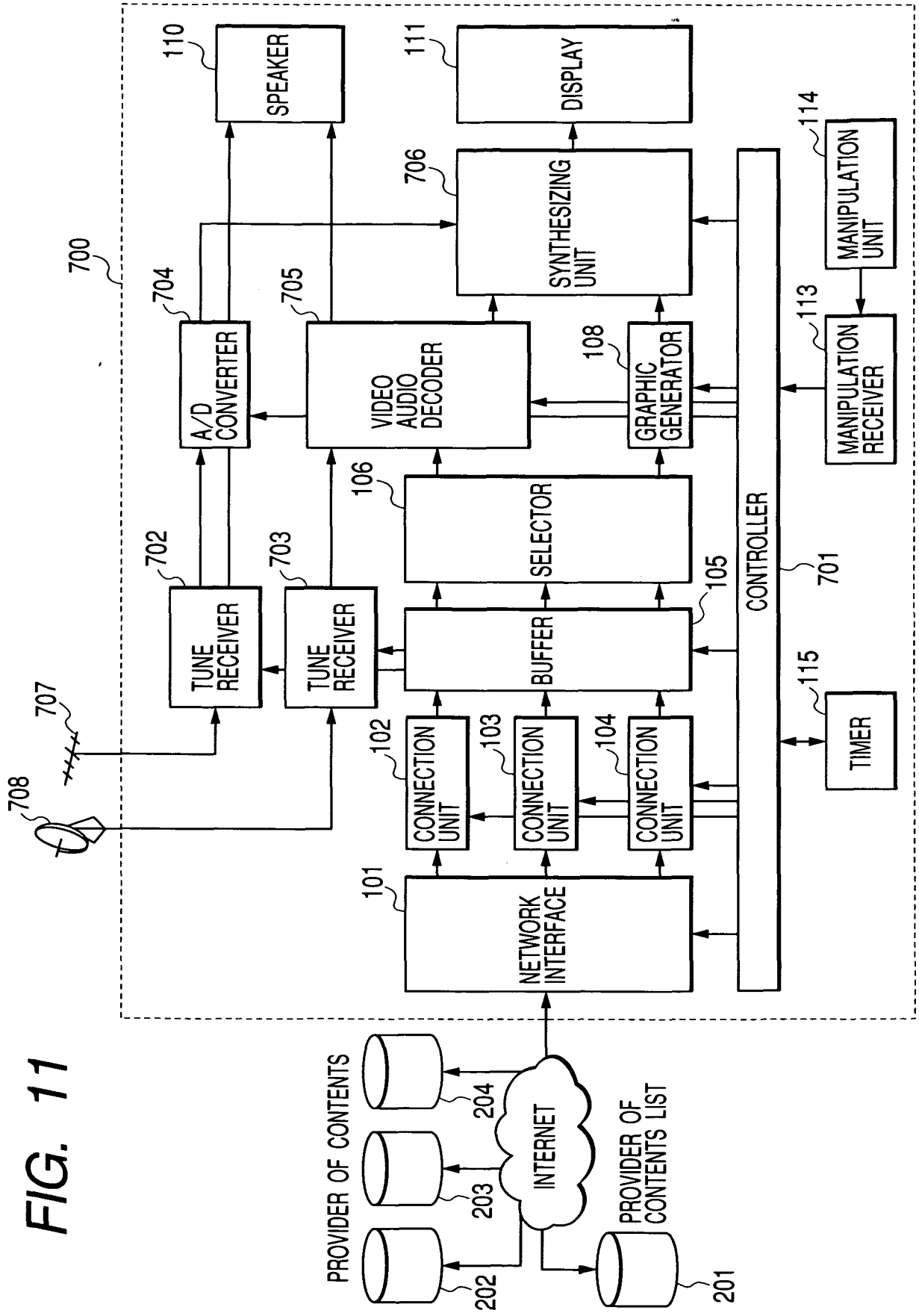

CANCEL STREAMING STOPPED
S715
CONNECT CONTENTS FAVORITE FOR SELECTION AND START BUFFERING
S716
BUFFERING CONTENTS DATA
S727

FIG. 11


700
110
SPEAKER
111
DISPLAY
706
SYNTHESIZING UNIT
114
MANIPULATION UNIT
704
705
A/D CONVERTER
VIDEO AUDIO DECODER
108
GRAPHIC GENERATOR
113
MANIPULATION RECEIVER
106
SELECTOR
702
703
TUNE RECEIVER
TUNE RECEIVER
105
BUFFER
CONTROLLER
701
707
708
102
CONNECTION UNIT
103
CONNECTION UNIT
104
CONNECTION UNIT
115
TIMER
101
NETWORK INTERFACE
PROVIDER OF CONTENTS
204
203
202
INTERNET
PROVIDER OF CONTENTS LIST
201